

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - NSPS SOURCE - REVISED

PERMITTEE

Curran Contracting Company
Attn: Mr. John Simon
7502 South Main Street
Crystal Lake, Illinois 60014

Application No.: 87030010

I.D. No.: 097811AAI

Applicant's Designation:

Date Received: June 23, 2003

Subject: Asphalt Plant

Date Issued: January 27, 2004

Expiration Date: June 6, 2006

Location: 941 Skokie Highway, Lake Bluff

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of one natural gas/fuel oil #2/waste oil-fired drum-mix asphalt plant with baghouse, 3 liquid asphalt storage tanks (2 - 30,000 gallon and 1 - 10,000 gallon), 2 fuel oil storage tanks (8,000 gallon and 2,000 gallon), one 8,000 gallon gasoline storage tank, 1 emulsified asphalt tank (10,000-gallon), and 1 cut back asphalt storage tank (10,000-gallon) as described in the application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of carbon monoxide (CO), nitrogen oxide (NO_x), sulfur dioxide (SO₂), and volatile organic material (VOM) from the asphalt plant to less than major source thresholds, as described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act Permit Program permit.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes the current permit(s) issued for this location.
- 2a. This asphalt plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The emissions from the asphalt plant shall not contain particulate matter in excess of 0.04 gr/dscf and shall not exhibit 20% opacity or greater, pursuant to the NSPS, 40 CFR 60.92.
- c. At all times the Permittee shall also maintain and operate the Asphalt Plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).

- d. Pursuant to 35 Ill. Adm. Code 212.313 emissions of PM₁₀ from particulate control equipment shall not exceed 0.03 gr/dscf.
- 3a. The 2 liquid asphalt storage tank(s) (30,000 gallon) are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart Kb. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. At all times, the Permittee shall, to the extent practicable, maintain and operate these tanks, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the New Source Performance Standard.
- c. The Permittee shall fulfill the monitoring of operations requirements of the New Source Performance Standards, 40 CFR 60.116b(a) and (b) for the 2 liquid asphalt storage tanks (30,000 gallon). That is, records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel, shall be maintained and readily accessible for the life of the source.
4. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP) and Section 112(G) of the Clean Air Act.
5. At all times the Permittee shall also maintain and operate this equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 6a. Emissions and operation of the asphalt plant shall not exceed the following limits:

<u>Asphalt</u> <u>(Tons/Hr)</u>	<u>Concrete</u> <u>(Tons/Mo)</u>	<u>Production</u> <u>(Tons/Yr)</u>	<u>Sulfur Content of Fuel Oil #2/Waste Oil</u> <u>(% Weight)</u>
475	200,000	750,000	0.3

<u>Pollutant</u>	<u>Emission Factor</u> <u>(Lb/Ton)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
Particulate Matter (PM)	0.033	3.3	12.4
Carbon Monoxide (CO)	0.130	13.0	48.8
Nitrogen Oxide (NO _x)	0.055	5.5	20.7
Sulfur Dioxide (SO ₂)	0.058	5.8	21.8
Volatile Organic Material (VOM)	0.032	<u>3.2</u>	<u>12.0</u>
	Totals	30.8	115.7

These limits are based on maximum asphalt production and standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. This permit is issued based on negligible emissions of volatile organic material (VOM) from 3 liquid asphalt storage tanks, 2 fuel oil storage tanks, 1 emulsified asphalt tank, 1 cut back asphalt storage tank, and one gasoline storage tank. For this purpose emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
 - c. This permit is issued based on negligible emissions of NO_x and CO from the tank heater. For this purpose emissions of each contaminant, from all such sources shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
7. The Permittee shall maintain records of the following items:
 - a. Asphalt concrete production (tons/month and tons/year); and
 - b. Sulfur content of fuel oil #2/waste oil used (% weight).
8. If the rotary dryer control system is not operating properly while the dryer is operated or there is an exceedance of the requirements of this permit, as determined by the records required by Conditions 6 and 9, the Permittee shall submit a report within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
9. The Permittee shall maintain operating and maintenance logs for the dryer control system, including: maintenance activities, with date and description of inspections, repair actions, and equipment or filter bag replacements, etc.
10. Within 90 days of a written request from the Illinois EPA, pursuant to 35 Ill. Adm. Code Section 201.282, the emissions and opacity of the exhaust from the asphalt plant shall be measured by an approved testing service, during conditions which are representative of the maximum performance. The Illinois EPA may provide additional time for the performance of this testing upon request from the Permittee which shows that it is not feasible to perform representative testing within 90 days.
11. This permit is issued based on the condition that SO₂ emissions do not exceed 0.3 lb/mmBtu, pursuant to 35 Ill. Adm. Code 214.304 and 214.122.
12. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA within 30 days after the exceedance. The report shall include the emissions released in

accordance with the record keeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences. This report should be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

13. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

14. The records required by this permit shall be retained at a readily accessible location at the plant for at least 3 years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request.
15. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including material handling or storage activity, beyond the property line of the emission source, pursuant to 35 Ill Adm. Code 212.301.
16. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.
17. The assembly of any these plants at a new location will require a construction permit for the new location. This permit must be obtained prior to commencing construction at the new location.
18. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
- a. Asphalt concrete production (tons/month and tons/year; and

b. Sulfur content of fuel oil #2/waste oil used (% weight).

It should be noted that this permit does not authorize the acceptance of waste. The appropriate permit must be obtained from the Bureau of Land before waste can be accepted. If the used oil is not "on-spec" as defined in 35 Ill. Adm. Code 739.111 or if it is "off-spec" and not burned in a unit for energy recovery as allowed by 35 Ill. Adm. Code 739.161, the used oil will be considered a solid waste and not a fuel. This makes the used oil subject to the manifest requirements of 35 Ill. Adm. Code 807, as a solid waste management site. Furthermore, the used oil must provide surplus energy beyond that necessary to sustain combustion to be considered a fuel and not a waste.

It should be noted that this permit had been revised to incorporate the operation of the equipment specified in Construction Permit 03060054. Further, the tank heater can no longer be exempted since it contributes to two of the pollutants (NO_x and CO), which are potentially major.

If you have any questions on this, please call Jim Kallmeyer at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JDK:jar

cc: Illinois EPA, FOS Region 1

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the asphalt plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This is handling 750,000 tons of asphalt production per year. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of CO, NO_x, and SO₂ and 25 tons per year of volatile organic material (VOM) at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

- 1a. Emissions and operation of the asphalt plant shall not exceed the following limits:

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